

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/IB 03/03109

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D06F75/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 433 785 A (BRAUN AG) 26 June 1991 (1991-06-26) the whole document ---	1-3
X	US 5 642 579 A (NETTEN ADRIAAN ET AL) 1 July 1997 (1997-07-01) the whole document ---	1,6
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) -& JP 2000 300899 A (MATSUSHITA ELECTRIC IND CO LTD), 31 October 2000 (2000-10-31) abstract --- -/--	1,4

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search

4 March 2004

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11/03/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 06, 22 September 2000 (2000-09-22) -& JP 2000 070599 A (MATSUSHITA ELECTRIC IND CO LTD), 7 March 2000 (2000-03-07) the whole document Fig. 4, ref. 33	1
X	--- US 5 642 578 A (HAZAN JEAN-PIERRE ET AL) 1 July 1997 (1997-07-01) the whole document	1
A	--- US 6 384 379 B1 (REIME GERD) 7 May 2002 (2002-05-07) column 3, line 46-50 column 4, line 43-45; figures 1,6	4,6
A	--- PATENT ABSTRACTS OF JAPAN vol. 017, no. 017 (C-1016), 13 January 1993 (1993-01-13) -& JP 04 244200 A (TOUSHIBA HOOMU TEKUNO KK), 1 September 1992 (1992-09-01) abstract -----	5

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/03109

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0433785	A	26-06-1991	DE 3942347 A1 AT 118567 T DE 59008477 D1 EP 0433785 A2 ES 2067636 T3	18-07-1991 15-03-1995 23-03-1995 26-06-1991 01-04-1995
US 5642579	A	01-07-1997	BR 9603892 A CN 1148420 A ,B DE 69608174 D1 DE 69608174 T2 EP 0753091 A1 WO 9623098 A1 JP 9510904 T	07-10-1997 23-04-1997 15-06-2000 14-12-2000 15-01-1997 01-08-1996 04-11-1997
JP 2000300899	A	31-10-2000	NONE	
JP 2000070599	A	07-03-2000	JP 3166769 B2	14-05-2001
US 5642578	A	01-07-1997	FR 2728914 A1 BR 9506087 A CN 1132285 A ,B DE 69516828 D1 DE 69516828 T2 EP 0719886 A1 JP 8224399 A SG 54984 A1	05-07-1996 23-12-1997 02-10-1996 15-06-2000 30-11-2000 03-07-1996 03-09-1996 24-07-2001
US 6384379	B1	07-05-2002	DE 19839730 C1 WO 0012806 A1 EP 1109963 A1	30-03-2000 09-03-2000 27-06-2001
JP 04244200 9	A		NONE	